Solitaire Interglobal

IBM PowerVM on POWER8 Industry Notes

The analysis for comparative positioning of IBM PowerVM on POWER8 technology was updated to examine the findings when looking at industries whose results vary from the average in virtualization deployment arena, as defined in the 2014 study titled, *"Why Your Virtualization Matters"*. In this further review, the positioning and differentiation of PowerVM with POWER8 and competitive architectures were expanded beyond the focus of the earlier project, but with the same base data.

Scope and Methodology

The data used in this query has been built on the base of the earlier study, without additional data points or supplementations.

Findings

The same metrics that were defined in the previous study are the basic analysis points for this query. The breakouts by industry show some areas for which the IBM PowerVM may be an even more optimal solution, although certain factors may affect that result. These areas are executive satisfaction, total cost of ownership and agility.

Customer Satisfaction – Executive Management

The customer satisfaction for executive management with the comparison groups defined in the main study differs for that reported by healthcare, telecommunications and retail implementations. In these industries, the satisfaction is substantially higher than the average findings outlined in the basic study. A comparison chart shows these differences.
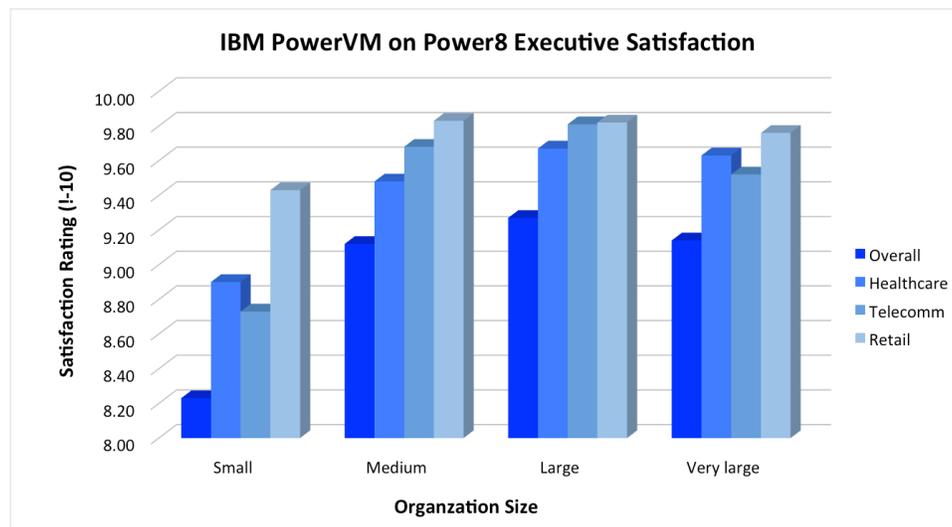
The shift in satisfaction at the executive level appears to be tied to several areas. All of the industry segments rely on a volatile and critically-performing mixture of large batch jobs and a high density of arrival transaction environment. The ability of the PowerVM separation architecture and the resilient resource optimization of the Power8 platform can be directly attributed to the higher satisfaction in all of these industry segments.

Total Cost of Ownership

Another area that shows a strong industry variance in for these three industries is the total cost of ownership. The chart below shows the TCO averages from the main document. A comparison of the industry segment averages shows a significant difference.
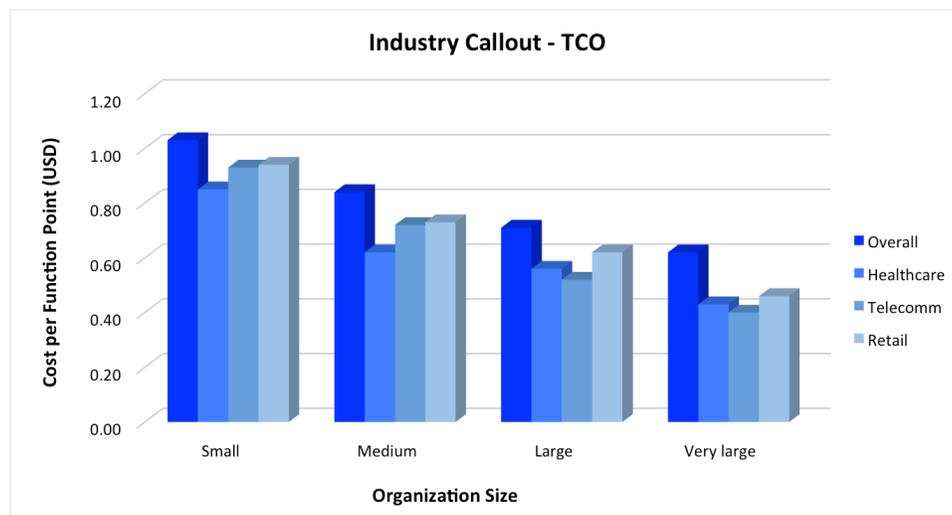
The study data showed a significantly smaller cost per function point for the three industries. In all cases, the industries are highly regulated and controlled. The intricate processing that is mandated by the market is well supported by the characteristics of the combination of PowerVM and the POWER8 architecture.

Agility

Another area of industry segment variance is agility, defined as the measure of time to market. It includes the calendar days between the start of a system's implementation to the start of its production. The following chart shows the breakdown of agility by the specific industry segments and organizational size for PowerVM and the POWER8 architecture. The values are averaged across each industry segment.

Industry Callout - Agility
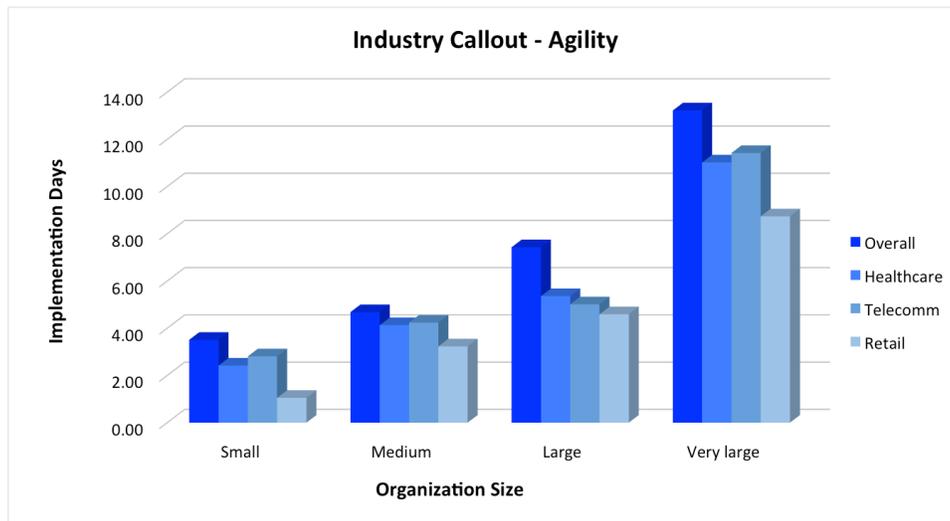
The significantly increased agility reported for these industry deployments are a substantial contribution to customer satisfaction for most entities. The increased agility in these industry segments can be directly sourced to the faster production promotion cycle and the significantly lower time required to configure new resource and allocation mechanisms. In the case of the retail industry where agility is an ongoing mantra, this increase in speed also ties directly to market share and revenue.

Conclusion

The healthcare, telecomm and retail industry segments showed differentiation from the average experiential pool for all organizations running PowerVM on Power8 architecture. The advantages for these industries on that combination of infrastructure components are significantly higher than for the remainder of the organization types in the main study. These advantages stem directly from the strengths of the combined solution and create an ongoing benefit for the deploying organizations.

About Solitaire Interglobal Ltd.

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A wide range of commercial and governmental hardware and software providers work with SIL to obtain certification for the performance capabilities and limitations of their offerings. SIL also works with these vendors to improve throughput and scalability for customer deployments and to provide risk profiles and other risk mitigation strategies. SIL has been involved deeply in the establishment of industrial standards and performance certification for the last several decades and has been conducting active information gathering for the Operational Characterization Master Study (OPMS) – chartered to develop better understanding of IT-centric organizational costs and behavioral characteristics. The OPMS has continued to build SIL's heuristic database, currently exceeding 1605 PB of information. The increased statistical base has continued to improve SIL accuracy and analytical turnaround to unmatched levels in the industry. Overall, SIL runs over 200,000 models per year in support of both ongoing subscription customers and ad hoc inquiries.

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